| Index of Claims |  |  |  |  |  |  |  |  |  |  |  |
|-----------------|--|--|--|--|--|--|--|--|--|--|--|
|                 |  |  |  |  |  |  |  |  |  |  |  |

| Application No. | Applicant(s)   |  |
|-----------------|----------------|--|
| 09/851,870      | CARROLL ET AL. |  |
| Examiner        | Art Unit       |  |
| Jacob Lipman    | 2134           |  |

| √ | Rejected |  |
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| = | Allowed  |  |

| _ | (Through numeral)<br>Cancelled |
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| ÷ | Restricted                     |

| Z | Non-Elected  |
|---|--------------|
| _ | Interference |

Jacob Lipman

| A | Appeal   |
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|       | _       | <u> </u>         |            |                |                | ,            |  |    |          |     |         |          |          |          |   |          | J                                   |          | ۲. |
|-------|---------|------------------|------------|----------------|----------------|--------------|--|----|----------|-----|---------|----------|----------|----------|---|----------|-------------------------------------|----------|----|
| Claim | Τ       |                  |            | - [            | Date           | e            |  |    |          |     | Cla     | im       |          |          |   | -        | Date                                | <br>e    | _  |
| Final | 11/3/04 |                  |            |                |                |              |  |    |          |     | Final   | Original |          |          |   |          |                                     |          |    |
| 1     | =       |                  | Г          | Г              |                |              |  |    |          |     |         | 51       |          | $\neg$   |   |          |                                     | Г        | T  |
| 2     | =       |                  |            |                |                |              |  |    |          |     |         | 52       |          |          |   |          |                                     |          | T  |
| 3     | =       | Π                | Г          | Г              |                |              |  |    |          |     |         | 53       |          | T        |   |          |                                     |          | Τ  |
| 4     | =       |                  |            | Γ              |                |              |  |    |          | -   |         | 54       |          |          |   |          |                                     |          | Γ  |
| 5     | =       |                  |            |                |                |              |  |    |          |     |         | 55       |          |          |   |          |                                     |          | Γ  |
| 6     | =       |                  |            |                |                |              |  |    |          | ٠.  |         | 56       |          |          |   |          |                                     |          | Γ  |
| 7     | =       |                  |            |                |                |              |  |    |          |     |         | 57       |          |          |   |          |                                     |          |    |
| 8     | =       |                  |            |                |                |              |  |    |          |     |         | 58       |          |          |   |          |                                     | _        | L  |
| 9     | =       |                  | _          |                |                |              | 匚  |    |          |     |         | 59       | $\Box$   | _        |   |          |                                     |          | Ļ  |
| 10    |         |                  | _          | _              | _              |              | _  |    | _        | ŀ   |         | 60       | Ц        |          |   |          |                                     | <u>L</u> | L  |
| 11    |         |                  |            |                |                |              | 匚  |    |          |     |         | 61       | $\sqcup$ |          |   |          |                                     | _        | L  |
| 12    |         |                  | _          | <u> </u>       |                | <u> </u>     | <u> </u>   | _  |          |     |         | 62       |          | _        |   |          |                                     | _        | Ļ  |
| 13    |         |                  | _          | _              | _              | _            | _  |    | <u> </u> |     |         | 63       |          | _        |   |          |                                     |          | L  |
| 14    |         | ļ                | _          |                | <u> </u>       | <u> </u>     | _  |    | <u> </u> |     |         | 64       | $\vdash$ | $\dashv$ |   | _        | <b> </b> _                          | ļ        | ╀  |
| 15    |         | _                |            | <u> </u>       | <u> </u>       | <u> </u>     | <u> </u>   |    | <u> </u> |     |         | 65       |          |          |   |          | _                                   |          | ļ  |
| 16    |         |                  |            | <u> </u>       | L              | <u> </u>     |  | Ш  | <u> </u> |     |         | 66       |          | _        |   |          | _                                   |          | ļ  |
| 17    |         | ┞                | -          | <del> </del>   | ├              | <u> </u>     | <u> </u>   |    | <u> </u> | ŀ   |         | 67       | $\vdash$ | $\dashv$ |   | _        | _                                   |          | ╀  |
| 18    |         | ┡                | <u> </u>   | <u> </u>       | ├              | -            | -  |    | _        | . ' |         | 68       | $\vdash$ | 4        | _ | _        | _                                   |          | Ļ  |
| 19    |         | ├_               | ⊢          | <u> </u>       | ├              | <u> </u>     | _  | Ш  | _        |     |         | 69       | $\vdash$ | 4        | _ | _        | -                                   |          | ╀  |
| 20    |         | ₩                | ₩          | ₩              | ļ              | <u> </u>     |  | _  | _        | ŀ   |         | 70       | Н        | $\dashv$ |   |          | ├                                   |          | ╀  |
| 21    |         | $\vdash$         | ⊢          | -              | ├              | <u> </u>     | ├—   | _  | <u> </u> |     |         | 71       | Н        | $\dashv$ |   |          | <u> </u>                            | -        | ╀  |
| 22    |         | $\vdash$         | H          | -              | <del> </del> — | -            | -  |    |          |     |         | 72       | Н        |          |   | <u> </u> | ┝                                   | -        | ╀  |
| 23    |         | ₩                | ⊢          | ┢              | -              | <u> </u>     | ┢  | -  | ├        | ŀ   |         | 73       | $\vdash$ | -        |   | _        | _                                   | -        | ╀  |
| 24    |         | $\vdash$         | ⊢          | $\vdash$       | ├              | ├-           | ├—   | _  | <u> </u> | ŀ   |         | 74<br>75 | H        | -        |   |          | <del> </del>                        | -        | ╁  |
| 26    |         | ┢                | ├-         | ┢              | ┢              | ⊢            |  | -  | -        | ŀ   |         | 76       | $\vdash$ | -        |   | _        | ┝                                   | $\vdash$ | ╁  |
| 27    |         | $\vdash$         | ⊢          | $\vdash$       | ├              | -            | ├-   | H  | }—       | ٠.  |         | 77       | Н        | $\dashv$ |   |          | ┢                                   | ⊢        | ╁  |
| 28    |         |                  | ⊢          | ╁              | ┢              | -            | ├  | -  | -        |     |         | 78       | H        | +        |   |          |                                     | -        | t  |
| 29    |         | ┢                | ╁          | ╁              | <del> </del>   | <del> </del> | ┢  | -  | $\vdash$ | -   |         | 79       | Н        | $\dashv$ | _ |          | $\vdash$                            | $\vdash$ | t  |
| 30    |         | -                | ╁          | ╁              | ╁              | <del> </del> | ├─   | -  | -        |     |         | 80       | H        | $\dashv$ |   | _        | $\vdash$                            | $\vdash$ | t  |
| 31    |         | -                | ┢          | -              | ├              | -            |  |    |          |     |         | 81       | H        | -        |   |          | Н                                   | H        | t  |
| 32    |         | $\vdash$         | ╁          | <del>  -</del> | ╁              | -            | <del>                                     </del> |    | $\vdash$ |     |         | 82       | -        |          |   |          | $\vdash$                            | H        | t  |
| 33    |         |                  | ┢          | _              | 一              | ┢            |  |    | $\vdash$ |     |         | 83       | Н        | 7        |   |          |                                     | H        | t  |
| 34    |         | $\vdash$         | 一          | $\vdash$       | T              | ┢            | <del>                                     </del> |    | -        | ŀ   |         | 84       | Ħ        | 寸        |   |          | $\vdash$                            | Н        | t  |
| 35    |         | T                | $\vdash$   | T              | $\vdash$       |              |  |    | _        | ŀ   |         | 85       | $\Box$   | $\neg$   |   |          | $\vdash$                            | 1        | t  |
| 36    |         | T                | ⇈          | _              | 一              | $\vdash$     |  |    |          |     |         | 86       | П        |          |   | _        |                                     | F        | t  |
| 37    |         | 1                | T          | <b>†</b>       | T -            |              |  |    |          | -   |         | 87       | П        | T        |   |          |                                     | Г        | t  |
| 38    |         |                  |            |                |                |              |  |    |          | ŀ   |         | 88       |          | T        |   |          |                                     | Г        | Ť  |
| 39    |         |                  |            | 1              | 1              |              |  |    |          | 1   |         | 89       | П        |          |   |          | Г                                   | Π        | T  |
| 40    |         |                  |            |                |                |              |  |    |          | 1   |         | 90       |          |          |   |          |                                     |          | T  |
| 41    | T       |                  |            |                |                |              |  |    |          | ]   |         | 91       |          |          |   |          |                                     |          | Γ  |
| 42    |         | $\mathbb{L}^{-}$ | $\Box$     | $\Box$         |                |              |  |    |          |     |         | 92       |          |          |   |          |                                     |          | Γ  |
| 43    |         |                  |            |                |                |              |  |    |          |     |         | 93       |          |          |   |          |                                     |          | Ι  |
| 44    |         |                  |            |                | 匚              |              |  |    |          |     |         | 94       |          | $\Box$   |   |          |                                     |          | Ĺ  |
| 45    |         |                  |            |                |                | oxdot        |  |    |          |     |         | 95       | Ш        | $\Box$   |   |          |                                     |          | Ĺ  |
| 46    |         |                  | <u>L_</u>  | L              | 乚              | 匚            | L  |    |          |     |         | 96       | Ш        |          |   | L        |                                     |          | L  |
| 47    |         | $oxed{oxed}$     | lacksquare | _              | <u> </u>       |              |  | L  | L.       |     | ļ       | 97       | Ш        |          |   |          | $ldsymbol{ldsymbol{ldsymbol{eta}}}$ | L        | ļ  |
| 48    |         | $oxed{igspace}$  | <u> </u>   | Ц              |                | L_           | <u></u>  | L_ |          |     | <u></u> | 98       | Ш        | $\dashv$ |   | L        | <u> </u>                            | <u> </u> | 1  |
| 49    |         | $\perp$          | Ц_         | <u> </u>       | <u> </u>       | L_           | <u> </u>   | L  | L_       |     |         | 99       | Ш        | $\Box$   |   | <u> </u> | _                                   | L        | 1  |
| 50    | ) I     | 1                | l          | 1              | i              | l            | ı  | l  | Į.       | ļ.  | l       | 100      | ıl       |          |   | l        | ı                                   |          | ı  |

| Cla   | im       |          |          |  | _ [   | Date                                | •  |    |              | _  |
|-------|----------|----------|----------|--|---|-------------------------------------|--|----|--------------|----|
|       |          |          |          |  |   |                                     |  |    |              |    |
| Final | Original |          |          |  |   |                                     |  |    | ******       |    |
|       | 51       |          |          |  |   |                                     |  |    |              |    |
|       | 52       |          |          |  |   |                                     |  |    |              |    |
|       | 52<br>53 |          |          |  |   |                                     |  |    |              |    |
|       | 54       |          |          |  |   |                                     |  |    |              |    |
|       | 55       |          |          |  |   |                                     |  |    |              |    |
|       | 56       |          |          |  |   |                                     |  |    |              |    |
|       | 57       |          |          |  |   |                                     |  |    |              |    |
|       | 58       |          |          |  |   |                                     |  |    |              |    |
|       | 59       |          |          |  |   |                                     |  |    |              |    |
|       | 60       |          |          |  |   |                                     |  |    |              |    |
|       | 61       |          |          |  |   |                                     |  |    |              |    |
|       | 62       |          |          |  |   |                                     |  |    |              |    |
|       | 63       |          |          |  |   |                                     |  |    |              |    |
|       | 64       |          |          |  |   |                                     |  |    |              |    |
|       | 65       |          |          |  |   |                                     |  |    |              |    |
|       | 66       |          |          |  |   |                                     |  |    |              |    |
|       | 67       |          |          |  |   |                                     |  |    |              |    |
|       | 68       |          |          |  |   |                                     |  |    |              |    |
|       | 68<br>69 |          |          |  |   |                                     |  |    |              |    |
|       | 70       |          |          |  |   |                                     |  |    |              |    |
|       | 71<br>72 |          |          |  |   |                                     |  |    |              |    |
|       | 72       |          |          |  |   |                                     |  |    |              |    |
|       | 73<br>74 |          |          |  |   |                                     |  |    |              |    |
|       | 74       |          |          |  |   |                                     |  |    |              |    |
|       | 75       |          |          |  |   |                                     |  |    |              |    |
|       | 76<br>77 |          |          |  |   |                                     |  |    |              |    |
|       | 77       |          |          |  |   |                                     |  |    |              |    |
|       | 78       |          |          |  |   |                                     |  |    |              |    |
|       | 79       |          |          |  |   |                                     |  |    |              |    |
|       | 80       |          |          |  |   |                                     |  |    |              |    |
|       | 81<br>82 |          |          |  |   |                                     |  |    |              |    |
|       | 82       |          |          |  |   |                                     |  |    |              |    |
|       | 83       |          |          |  |   |                                     |  |    |              |    |
|       | 84       | _        |          | <u> </u>   |   |                                     | _  |    | L            | L  |
| L     | 85       | L_       | L_       | L  |   |                                     | Ш  |    |              |    |
|       | 86       | $\Box$   | L        |  |   |                                     |  |    | L            | L. |
|       | 87       | L        | L.       |  |   |                                     |  |    | _            |    |
| L     | 88       |          | L_       | Ш  |   | L                                   |  |    | <u> </u>     |    |
|       | 89       |          | L_       | L  | $ldsymbol{le}}}}}}$ | ļ                                   | Ш  | Ш. | <u> </u>     |    |
|       | 90       | _        |          | L  | $ldsymbol{ldsymbol{ldsymbol{eta}}}$   |                                     |  |    | _            |    |
|       | 91       | L        | L_       |  | $ldsymbol{ld}}}}}}$          | $oxed{oxed}$                        | $oxed{oxed}$                                 |    | <u> </u>     |    |
|       | 92       |          | L        |  | L   |                                     | L_   |    | L            | _  |
|       | 93       | L_       | L        | $ldsymbol{ld}}}}}}$ | L.  | $ldsymbol{ldsymbol{ldsymbol{eta}}}$ | L_   | L  | $oxed{oxed}$ |    |
|       | 94       |          |          |  | L.  | _                                   | <u> </u>                                     |    |              | _  |
|       | 95       | <u> </u> |          |  |   |                                     | $\Box$                                       |    |              |    |
|       | 96       |          | <u> </u> | لــــا   | L   | Ш                                   | $\Box$                                       |    |              | L. |
| L     | 97       | <u></u>  |          |  |   | Ш                                   |  |    |              |    |
|       | 98       |          |          |  |   | _                                   | $ldsymbol{ldsymbol{ldsymbol{ldsymbol{eta}}}$ |    | _            | L  |
|       | 99       | <u> </u> | <u> </u> | <u> </u>   | L   | Ш                                   | L  |    |              |    |
| 1     | 100      | 1        | 1        | I "  | ı   | ı                                   | ı  | 1  |              | ŀ  |

| Cla   | Date   |              |              |  |                                     |              |          |  |          |           |  |
|-------|--|--------------|--------------|--|-------------------------------------|--------------|----------|--|----------|-----------|--|
| Final | Originat   |              |              |  |                                     |              |          |  |          |           |  |
|       | 101<br>102<br>103                                    |              |              |  |                                     |              |          |  |          |           |  |
|       | 102  |              |              |  |                                     |              | L        |  |          |           |  |
|       | 103  |              |              |  |                                     |              |          |  |          |           |  |
|       | 104<br>105   | ļ            |              | <u> </u>   |                                     |              | _        |  |          | $\square$ |  |
|       | 105  |              | -            | _  |                                     |              | H        |  |          | $\vdash$  |  |
|       | 106<br>107   |              | -            | -  |                                     |              | $\vdash$ |  | H        | $\vdash$  |  |
|       | 108  | $\vdash$     | H            |  | H                                   |              | $\vdash$ |  |          | Н         |  |
|       | 109  | ┢            | $\vdash$     |  | ┢                                   | _            | <u> </u> |  |          | Н         |  |
|       | 110  |              |              |  | l                                   |              |          |  |          | П         |  |
|       | 111  |              |              |  |                                     |              |          |  |          |           |  |
|       | 112<br>113   |              |              |  |                                     |              |          |  |          | Ш         |  |
|       | 113  | L            | _            | <u> </u>   | _                                   | Ш            | L        | $oxed{oxed}$                                     | _        | Ш         |  |
|       | 114  | <u> </u>     | $\vdash$     | ├  | <u> </u>                            | _            | <u> </u> | ļ.,  | _        | $\vdash$  |  |
|       | 114<br>115<br>116                                    | <del> </del> |              | -  | _                                   | $\vdash$     | _        | $\vdash$   | $\vdash$ | Н         |  |
|       | 117  | $\vdash$     | $\vdash$     | $\vdash$   | $\vdash$                            | $\vdash$     | $\vdash$ | $\vdash$   | $\vdash$ | Н         |  |
|       | 117<br>118   | -            | $\vdash$     |  | ┢                                   | $\vdash$     | -        |  |          | Н         |  |
|       | 119  |              |              | <del>                                     </del> |                                     | $\vdash$     |          |  |          | П         |  |
|       | 120  |              | $\vdash$     |  |                                     |              |          |  |          | П         |  |
|       | 121  |              |              |  |                                     |              |          |  |          |           |  |
|       | 122  |              | <u> </u>     |  |                                     | _            |          |  |          | Ш         |  |
|       | 123  |              | _            | <u> </u>   | <u> </u>                            | <u> </u>     |          |  |          | Ш         |  |
|       | 124  |              | ┝            | -  | ├                                   | $\vdash$     | _        |  | <u> </u> | Н         |  |
|       | 125  | $\vdash$     |              | $\vdash$   | _                                   | -            | -        |  |          |           |  |
|       | 120<br>121<br>122<br>123<br>124<br>125<br>126<br>127 |              | ┢            |  | $\vdash$                            |              | $\vdash$ |  | -        | Н         |  |
|       | 128<br>129<br>130                                    |              |              |  |                                     |              |          |  |          |           |  |
|       | 129  |              |              |  |                                     |              |          |  |          |           |  |
|       | 130  |              |              |  |                                     |              |          |  |          |           |  |
|       | 131<br>132   | <u> </u>     | <u> </u>     | _  | _                                   |              | <u> </u> |  |          |           |  |
|       | 132  | ┡            | <u> </u>     |  |                                     |              |          |  |          | Щ         |  |
|       | 133<br>134   | <u> </u>     | <del> </del> | ├  | -                                   | <del> </del> |          | _  | H        | Н         |  |
|       | 134  | $\vdash$     | -            |  | ├                                   | -            | -        | -  | -        | H         |  |
|       | 136  |              | _            | H  | H                                   | -            | $\vdash$ | $\vdash$   |          |           |  |
|       | 136<br>137   | $\vdash$     | $\vdash$     | ┢  | -                                   | _            | $\vdash$ | <del>                                     </del> |          |           |  |
|       | 138  |              | Г            |  |                                     |              |          |  |          |           |  |
|       | 139  |              |              |  |                                     |              |          |  |          |           |  |
|       | 140  | _            | lacksquare   |  | $ldsymbol{ldsymbol{ldsymbol{eta}}}$ |              |          |  | _        | Щ         |  |
|       | 141  | ⊢            | _            | <u> </u>   | <u> </u>                            | _            |          | ├-   | <u> </u> | Ш         |  |
|       | 142<br>143   | ⊢            | <del> </del> | ├-   | <u> </u>                            | <u> </u>     | $\vdash$ | -  |          |           |  |
|       | 144  | ├            | ⊢            | $\vdash$   | ├─                                  | -            | -        | <del> </del>                                     |          | $\vdash$  |  |
|       | 145  | <del> </del> | -            | $\vdash$   | H                                   |              | -        | $\vdash$   | $\vdash$ |           |  |
| -     | 146  | $\vdash$     | -            |  | $\vdash$                            | <u> </u>     |          |  | $\vdash$ | $\vdash$  |  |
|       | 147  | İ            |              |  |                                     |              |          |  |          |           |  |
|       | 148  |              |              | Ľ  |                                     |              |          |  |          |           |  |
|       | 149  |              |              |  | Ĺ.                                  |              |          |  |          |           |  |
| L     | 150  | <u></u>      | L            | <u> </u>   |                                     | L            | L        |  |          |           |  |